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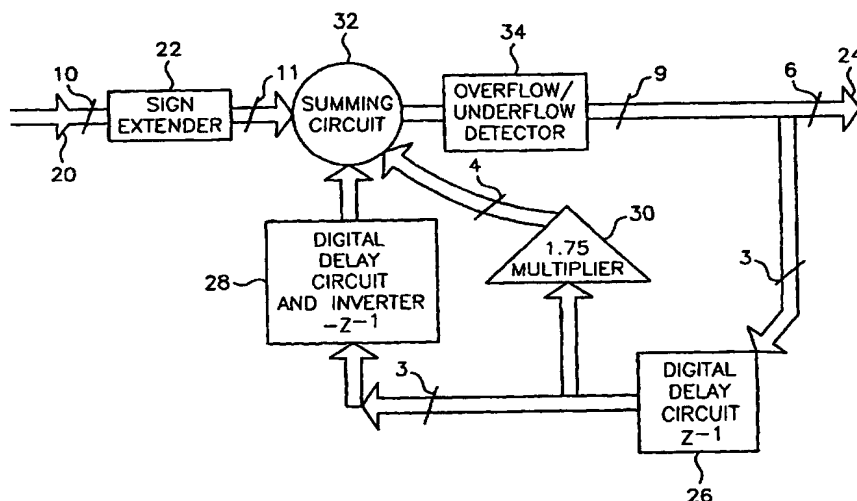
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- (71) Applicant (for all designated States except US): **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, NY 10504 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GANTI, Ramkishore** [IN/IN]; 140 Thatchers Court, Dripping Springs, TX 78620 (US). **ESHRAGHI, Aria** [US/US]; 1709 Acacia Bud Drive, Austin, TX 78733 (US).
- (74) Agents: **ABATE, Joseph et al.**; 2070 Route 52, Hopewell Junction, NY 12533 (US).
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(54) Title: **BANDPASS DELTA SIGMA TRUNCATOR AND METHOD OF TRUNCATING A MULTI-BIT DIGITAL SIGNAL**



(57) **Abstract:** A bandpass delta sigma truncator that truncates multi-bit digital input signals to digital output signals (24) having a selected number of the most significant data bits of the digital input signals and a method of truncating multi-bit digital signals. The remaining least significant data bits (3) of the input signals are (a) time delayed (26) by a period of time equal to the time between successive input signals and multiplied by a number (30) related to the ratio of a selected frequency to the frequency of the input signals and the results of the multiplication are added (32) to signs extensions (11) of the input signals, and (b) time delayed by a period of time equal to twice the time between successive input signals and after inversion (28) are added (32) to the sign extensions of the input signals.

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